

MICRO PLUS™ ZINC

Material Safety Data Sheet (rev.01/05)

SECTION I PRODUCT IDENTIFICATION

	NFPA HAZARD RATINGS
	HEALTH HAZARD 1 FIRE HAZARD 0 REACTIVITY 0
	SARA/ TITLE III HAZARD CATEGORIES (See Section IX)
	Immediate (ACUTE) Health: NO Reactive Hazard: No
	Delayed (Chronic) Health: YES Fire Hazard: NO Sudden Release of Pressure: NO
Company Name:	STOLLER USA, INC.
Address:	4001 W. Sam Houston Parkway, N., Suite 100 Houston, Texas 77043-1226 U.S.A.
Emergency Phone Number:	CHEMTREC: In the U.S. and Canada call Toll- free: 1(800)424-9300 From other countries call collect: 1+(703)527-3887
Phone Number for Information:	1(800)539-5283 or 1(713)461-1493
Chemical Family:	metallic salt solutions
Chemical Name & Synonyms:	N/ A, mixture
Formula:	Proprietary
Trade name & Synonyms:	MICRO PLUS ZINC, MICRO- PLUS 10% ZINC

SECTION II PHYSICAL AND CHEMICAL CHARACTERISTICS

INGREDIENTS:	CAS#	Approx. %	TLV
Zinc Chloride	7646-85-7	33-35%	1 mg/ m ³ as Zn

SECTION III PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT:	115° C (238° F)	VAPOR PRESSURE (mm/ Hg):	
MELTING POINT:	N/ A	VAPOR DENSITY (air = 1):	2.1
SPECIFIC GRAVITY:	1.24	REACTIVITY IN WATER:	N/ E
SOLUBILITY IN WATER:	>99%	EVAPORATION RATE:	<1
APPEARANCE AND ODOR:	Clear yellow liquid with neutral odor.		
PERCENT VOLATILE BY VOLUME:		N/ A	
OTHER:	pH 3.0 approx.		

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT:	N/ A		
FLAMMABLE LIMITS:	N/ A	LEL:	UEL:
EXTINGUISHER MEDIA:	All means to fight surrounding fire (water, CO ₂ , dry chemicals).		
SPECIAL FIRE FIGHTING PROCEDURES:	Wear self- contained breathing apparatus.		
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Toxic fumes may be generated at elevated temperatures.		

SECTION V**PHYSICAL HAZARDS (REACTIVITY DATA)**

STABILITY:
CONDITIONS TO AVOID:
INCOMPATIBILITY, MATERIALS TO AVOID:
HAZARDOUS DECOMPOSITION PRODUCTS:
MAY OCCUR:

Stable: Yes Unstable:

N/ A
Oxidizers.

Chlorine fumes, SO₂ and metal oxides may evolve at high temperatures.

WILL NOT OCCUR: X

SECTION VI**HEALTH HAZARDS****A. EXPOSURE LIMITS:**

1. OSHA Permissible Exposure Limit (PEL): N/ E
2. Threshold Limit Value (TLV): 1 mg/ m³ as Zn

B. CARCINOGEN OR POTENTIAL CARCINOGEN: N/ A**C. EFFECTS OF OVEREXPOSURE:****1. ACUTE:**

EYES: Potential irritation. May cause permanent damage if prolonged exposure happens.

SKIN: Potential mild irritation. Prolonged or repeated exposure may cause burns.

INHALATION: Potential mild irritation to respiratory tract.

INGESTION: Burning sensation in mouth, throat and esophagus. May produce nausea, abdominal pain, diarrhea. May be fatal.

2. CHRONIC: May cause CNS disorders, metal fume fever.

D. EMERGENCY FIRST AID PROCEDURES:

EYES: Immediately flush with plenty of water for at least 15 minutes. Seek medical attention.

SKIN: Wash thoroughly with soap and water. Seek medical attention if inflammation occurs.

INHALATION: Remove from exposure area if irritation exists from mists or in the event of massive inhalation. Seek medical attention.

INGESTION: Give at least two glasses of water. Do not induce vomiting. Get medical attention.

E. ANIMAL TOXICITY DATA:

Oral LD₅₀ (rat): Zinc chloride 350 mg/ Kg

F. ADDITIONAL INFORMATION:N/ A**SECTION VII****SPECIAL PRECAUTIONS & SPILL/ LEAK PROCEDURES**

HANDLING AND STORAGE:Keep lid tightly closed. Store in dry area, above freezing and below 38°C (100°F), out of direct sunlight. Keep out of reach of children. Mix well before using.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED: Collect and contain for salvage or disposal. Absorb waste on inert media and dispose of as a solid waste.

WASTE DISPOSAL METHODS: Follow all applicable Federal, State and Local laws concerning health and environment.

SECTION VIII**SPECIAL PROTECTION / CONTROL MEASURES**

RESPIRATORY PROTECTION: As required by conditions. Use an OSHA or NIOSH approved respirator if required.

VENTILATION: General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions.

SECTION IX**ENVIRONMENTAL EFFECTS DATA**

The available data on this plant nutrient material does not indicate any undue hazard to the environment under anticipated use and storage. Any waste due to spillage or leakage should be contained and disposed of as a Fertilizer (see above under Waste Disposal Methods). Due to its nutrient value, may contribute to eutrophication in bodies of water. To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section I. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details.

SECTION X**TRANSPORTATION DATA**

PROPER SHIPPING NAME: MICRO PLUS ZINC

PLACARD: N/ A

Stoller Enterprises, Inc., believes the information contained in this material safety data sheet is accurate based on the information supplied by reputable suppliers of our raw materials. The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.